

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20050122360"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 07:41
L2	2	"5581287".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 07:42
L9	3	"20020130918"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 09:43
L10	0	"200402239714"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 09:43
L11	2	"20040239714"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 09:43
L12	5	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and electrostatic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 10:02
L13	1	10/824335 and (recovery).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:20
L14	2	"20020149637"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:22

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L15	3	"20020149657"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:26
L16	3005	347/19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:27
L17	4	("20020144550" "20030146742"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 10:43
S1	6	("4034380" "5500657").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:46
S2	2957	347/19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:39
S3	35608	"347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:39
S4	6066	diaphram\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:40
S5	1476	acutator\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:39

EAST Search History

S6	306556	diaphram\$1or diaphragm\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:40
S7	2817159	(cavity or cavities or reservoir\$1 or bag\$1 or container\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:40
S8	12	S5 same S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:41
S9	0	S5 same S6 and S7 and ("347"/\$3 or "346"/\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:42
S10	13	("4034380" "5500657""2002063745" "6447091" "2002130918" "6494560" "6481824" "63141750").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:47
S11	12	("4034380" "5500657""2002063745" "6447091" "2002130918" "6494560" "6481824").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:49
S12	12	("4034380" "5500657" "6447091" "6494560" "6481824").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:53
S13	0	S12 and (diaphragm or diaphram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:52

EAST Search History

S14	2	S12 and (actuat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:50
S15	0	S12 and (diaphragm\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:52
S16	2123	S3 and (diaphragm\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:52
S17	1051	S3 and (diaphragm\$1) same (actuat\$3 or activat\$3 or start\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:54
S18	997	S3 and (diaphragm\$1) same (actuat\$3 or activat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/18 11:55
S19	962	S3 and (diaphragm\$1) same (actuat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:43
S20	13	("1211078" "6447091" "6484824"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:53
S21	20	("1211078" "1147900" "0933215"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:56
S22	1	2002-124042.NRAN.	DERWENT	AND	OFF	2006/02/21 07:54

EAST Search History

S23	2	("6460964").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:58
S24	35656	"347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 07:58
S25	13	S24 and (diaphragm\$1) same (actuat\$3) and (cavity or reservoir or chamber or recess) same (pressure) same (nozzle or orifice or ejector or ejection) and (vibration with detect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 07:59
S26	12	S24 and (diaphragm\$1) same (actuat\$3) and (cavity or reservoir or chamber or recess) same (pressure) same (nozzle or orifice or ejector or ejection) and (vibration with detect\$3) and puls\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 08:46
S27	15	S24 and (diaphragm\$1) same (actuat\$3 or vibrat\$3) and (cavity or reservoir or chamber or recess) same (pressure with (increas\$3 or decreas\$3 or chang\$3)) same (nozzle or orifice or ejector or ejection) and (vibration with detect\$3) and puls\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:34
S29	1	"63141750"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:01
S30	89	fukano.in. near2 takakazu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:08
S31	2	fukano.in. near2 takakazu and air with bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:05

EAST Search History

S32	7	fukano.in. near2 takakazu and vibration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:13
S33	0	S24 and (diaphragm\$1) same (actuat\$3 or vibrat\$3) same (driv\$3 with circuit\$2) same (residual with virbrat\$3 with (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:36
S34	0	S24 and (actuat\$3 or vibrat\$3) same (driv\$3 with circuit\$2) same (residual with virbrat\$3 with (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:37
S35	0	S24 and (actuat\$3) same (driv\$3 same circuit\$2) same ((residual or remaining) with virbrat\$3 with (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:38
S36	0	S24 and (actuat\$3) same ((driv\$3 same circuit\$2) and ((residual or remaining) with virbrat\$3 with (sens\$3 or detect\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:38
S37	23	S24 and (actuat\$3) same (driv\$3 same circuit\$2) and ((residual or remaining) with vibrat\$3 with (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:39
S38	14	S24 and (actuat\$3) same (driv\$3 same circuit\$2) same ((residual or remaining) with vibrat\$3 with (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:43
S39	1	"20020144550" and (residual with vibrat\$3 with (detect\$3 or sens\$3) same (diaphragm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:44

EAST Search History

S40	1	"20020144550" and (residual with vibrat\$3 same (diaphragm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:45
S41	1	"20020144550" and (residual with vibrat\$3 same (sens\$3 or detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:51
S42	0	"20020144550" and (circuit with driving)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:51
S43	0	"20020144550" and (circuit with driv\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:51
S44	0	("20020015068" "20030146742"). pn. and (residual with vibrat\$3) with (sens\$3 or detect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/21 10:56
S45	0	("20020015068" "20030146742"). pn. and (residual with vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/21 10:56
S46	0	("20020015068" "20030146742"). pn. and (residual same vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/21 10:57
S47	0	("20020144550" "20030146742"). pn. and (residual same vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/21 10:57

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S48	0	("20020144550" "20030146742"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/21 10:57
S49	2	("20020144550" "20030146742"). pn. and (residual with vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:00
S50	294253	("20020144550" "20030146742"). pn. and (residual with vibrat\$3) saem diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:00
S51	1	("20020144550" "20030146742"). pn. and (residual with vibrat\$3) same diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:00
S52	2	("20020144550" "20030146742"). pn. and (residual with vibrat\$3) same actuat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:03
S53	3	("20020144550" "20030146742"). pn. and (tim\$3 same measur\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:04
S54	3	("20020144550" "20030146742"). pn. and (tim\$3 with measur\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:04
S55	0	("20020144550" "20030146742"). pn. and (tim\$3 with measur\$3) same acutat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:04

EAST Search History

S56	2	("20020144550" "20030146742"). pn. and (tim\$3 with measur\$3) same actuat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:08
S57	1	("20020144550" "20030146742"). pn. and (fail\$3 or clog\$4 or error or malfunction\$3) with (sens\$3 or detect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:14
S58	1	("20020144550" "20030146742"). pn. and (count\$3) and (tim\$3) and hold\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:32
S59	1	("20020144550" "20030146742"). pn. and (count\$3) same (tim\$3) same hold\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:20
S60	2	("20020144550" "20030146742"). pn. and (count\$3) and (tim\$3) and (hold\$3 or stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:33
S61	2	("20020144550" "20030146742"). pn. and (count\$3) and (tim\$3) and (stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:46
S62	0	("20020144550" "20030146742"). pn. and (count\$3) same (tim\$3) same (stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:37
S63	0	("20020144550" "20030146742"). pn. and (count\$3) and (tim\$3) same (stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:37

EAST Search History

S64	2	("20020144550" "20030146742"). pn. and (count\$3) and (tim\$3) and (stor\$3 or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:51
S65	1	("20020144550" "20030146742"). pn. and temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:46
S66	2	("20020144550" "20030146742"). pn. and (reference)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 11:53
S67	2	("20020144550" "20030146742"). pn. and (reference) with (value or number or pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:04
S68	1	("20020144550" "20030146742"). pn. and (temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:07
S69	0	("20020144550" "20030146742"). pn. and (temperature) and subtract	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:07
S70	1	("20020144550" "20030146742"). pn. and (temperature) and subtract\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:08
S71	1	("20020144550" "20030146742"). pn. and (temperature) and Pwh1\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:09

EAST Search History

S72	1	("20020144550" "20030146742"). pn. and (temperature) same Pwh1\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:10
S73	2	("20020144550" "20030146742"). pn. and predetermined with time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:11
S74	2	("20020144550" "20030146742"). pn. and predetermined with time same vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:16
S75	2	("20020144550" "20030146742"). pn. and predetermined with time same (vibrat\$3 or residual)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:17
S76	1	("20020144550" "20030146742"). pn. and predetermined with time same (vibrat\$3 with residual)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:17
S77	1	("20020144550" "20030146742"). pn. and predetermined with time with (vibrat\$3 with residual)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/21 12:17
S78	1174	residual adj vibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:44
S79	35695	"347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:44

EAST Search History

S80	46432	actuator with ((after with driving) or driven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:45
S81	28	S78 S79 S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:46
S82	17	S78 S79 S80 same time period	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:47
S83	0	S78 S79 same S80 same time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:46
S84	0	S78 and S79 same (time or period)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:47
S85	94	S79 and S78 same (time or period)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 07:47
S86	15	S79 and S78 same (time or period) same S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:03
S87	0	("20020144550" "20030146742"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:00

EAST Search History

S88	0	("20020144550" "20030146742"). pn. and vibrat\$3 same tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:01
S89	0	("20020144550" "20030146742"). pn. and residual same tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:00
S90	4	("20020144550" "20030146742"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 08:00
S91	3	("20020144550" "20030146742"). pn. and vibrat\$3 same tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 08:01
S92	2	("20020144550" "20030146742"). pn. and (remaining or residual or extra) same vibrat\$4 same tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/23 08:01
S93	281	"347"/\$3 and (before same (driving or driven) same (residual or remaining or remainder or extra) same vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:04
S94	19	"347"/\$3 and (before with (driving or driven) same (residual or remaining or remainder or extra) near3 vibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:15
S95	3	"347"/\$3 and (time with period with until with residual with vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:20

EAST Search History

S96	3	"347"/\$3 and (time with period with until with residual with cycle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:21
S97	15	"347"/\$3 and (head with failure with judging)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:23
S98	64	"347"/\$3 and (error or fail\$3) with (print\$head or head or nozzle\$1 or ejector) with (determin\$4 or sens\$3 or judg\$3) same (calculat\$4 or computation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:31
S99	47	"347"/\$3 and (error or fail\$3) with (print\$head or head) with (determin\$4 or sens\$3 or judg\$3) same (calculat\$4 or computation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 08:33
S10 0	12	"347"/\$3 and (error or fail\$3) with (print\$head or head) with (determin\$4 or sens\$3 or judg\$3) same (calculat\$4 or computation) same (cause or result)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/02/23 09:37
S10 1	1060	347/19 and (error or fail\$3 or fault\$3 or mal\$function\$3 or misfir\$3) same (print\$head or head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:00
S10 2	670	paper near dust and bubble and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:37
S10 3	12	paper near dust and bubble and "347"/\$3 and Shinkawa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:38

EAST Search History

S10 4	10	paper near dust and bubble and "347"/\$3 and Shinkawa.in. and computation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:38
S10 5	447	347/19 and (error or fail\$3 or fault\$3 or mal\$function\$3 or misfir\$3) same (print\$head or head) and (threshold or limit or maximum) and ((lapsed or amount or period) with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:08
S10 6	18	347/19 and (error or fail\$3 or fault\$3 or mal\$function\$3 or misfir\$3) same (print\$head or head) and (threshold or limit or maximum) with first and ((lapsed or amount or period) with time) and (air with bubble)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:09
S10 7	40	"347"/\$3 and residual near vibrat\$3 with actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 08:03
S10 8	11	"347"/\$3 and residual near vibrat\$3 with actuator with time and (time with half)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 08:03
S10 9	44	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3) with (dust or particles) with paper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:39
S11 0	73	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (dust or particles) with paper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/06 12:39
S11 1	9	"1211078".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 13:05

EAST Search History

S11 2	425	osamu.in. and (count near (threshold or value))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 13:57
S11 3	33	osamu.in. and (count near (threshold or value)) and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 13:58
S11 4	4	osamu.in. and (count near (threshold or value)).clm. and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 14:06
S11 5	9	"1147900".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 14:07
S11 6	0	"6447091".in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 14:11
S11 7	2	"6447091".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/06 15:55
S11 8	2	"20020093551"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 06:47
S11 9	0	"20020093551" and (address with generator) same timing with pulses	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 06:55

EAST Search History

S12 0	0	"20020093551" and (address with generator) and (timing with pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 06:54
S12 1	0	"20020093551" and (address with generator) and (fire pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 06:54
S12 2	2	"20020093551"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 07:01
S12 3	1	"20020093551" and control\$3 and tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 07:04
S12 4	1	"20020093551" and control adj signal\$1 and tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/07 08:06
S12 5	2	"6364452".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 12:54
S12 6	2	"20010007460"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 13:08
S12 7	2	"6820955".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 13:55

EAST Search History

S12 8	2	"6234607".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 13:57
S12 9	2	"20020170353"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 13:57
S13 0	2	"20020144550"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 14:00
S13 1	0	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/28 14:03
S13 2	27	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:28
S13 3	9	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (time same vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:35
S13 4	9	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (time with vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:58
S13 5	6	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (time with vibrat\$3 same actual\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:06

EAST Search History

S13 6	23	"347"/\$3 and (residual with vibration with generated with actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:08
S13 7	17	"347"/\$3 and (time with residual with vibration with generated with actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:12
S13 8	25	"347"/\$3 and ((period or time) with vibrat\$3 with after with actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:13
S13 9	3	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head or print\$head or eject\$3 or nozzle) with failure with (small\$2 or less) with threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:31
S14 0	11	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head or print\$head or eject\$3 or nozzle) with (failure or fail\$3 or error) with (small\$2 or less) with threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:43
S14 1	2	"20050122360"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:38
S14 2	1	"20050122360" and paper near dust same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:40
S14 3	1	10/824355	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:42

EAST Search History

S14 4	1	10/824335	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:42
S14 5	49	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head or print\$head or eject\$3 or nozzle) with (failure or fail\$3 or error) with threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:47
S14 6	5	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head or print\$head or eject\$3 or nozzle) with (failure or fail\$3 or error) with threshold with (first and second)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:50
S14 7	53	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head or print\$head or eject\$3 or nozzle) with (threshold with (first and second))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:54
S14 8	58	"347"/\$3 and (judg\$3 or determin\$3 or detect\$3 or sens\$3) with (head\$1 or print\$head\$1 or eject\$3 or nozzle\$1) with (threshold\$1 with (first and second))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 14:54
S14 9	8	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (threshold\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:06
S15 0	11	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (threshold\$1 or range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:08
S15 1	43	"347"/\$3 and (within with range with function\$3 with (head or print\$head or nozzle or orifice or ejector))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:09

EAST Search History

S15 2	1	"347"/\$3 and (within near2 (range or thresholds) near4 function\$3 near4 (head or print\$head or nozzle or orifice or ejector))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:10
S15 3	8	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (wip\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:14
S15 4	7	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (wip\$3) same (number or time or amount)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:25
S15 5	4	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (fail\$3) with (eliminat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:28
S15 6	15	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (stor\$3 with (ink or liquid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:28
S15 7	3	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (stor\$3 with (ink or liquid)) same (chang\$2 or exchang\$3 or replac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:30

EAST Search History

S15 8	9	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and ((stor\$3 or reservoir or cavity or cavities or chamber) with (ink or liquid)) same (chang\$2 or exchang\$3 or replac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:32
S15 9	9	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and ((stor\$3 or reservoir or cavity or cavities or chamber) with (ink or liquid)) same (chang\$2 or exchang\$3 or replac\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:33
S16 0	71	"347"/\$3 and (stor\$3 or cartridge or chamber or reservoir or recess) with inform with (replac\$3 or exchang\$3 or out or low)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:34
S16 1	90	"347"/\$3 and (stor\$3 or cartridge or chamber or reservoir or recess) with inform\$3 with (replac\$3 or exchang\$3 or out or low)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:35
S16 2	7	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (stop\$4 with print\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:36
S16 3	0	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (stop\$4 with print\$3 with (error))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:37
S16 4	127	"347"/\$3 and (stop\$4 with print\$3 with (error))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:39

EAST Search History

S16 5	0	"347"/\$3 and (stop\$4 with print\$3 with (error) with eliminat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:37
S16 6	92	vibration with detecting and switching with actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:39
S16 7	12	vibration with detecting and switching with actuator and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:41
S16 8	8	(vibration with detecting and switching with actuator).clm. and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 15:44
S16 9	1	10/824335 and (switch\$3 and determin\$3 and vibrat\$3 and actuator).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:46
S17 0	0	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (hold same error same time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:59
S17 1	0	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (hold with error with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:50
S17 2	87	"347"/\$3 and (error or fail\$3) with (count\$3) with time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:50

EAST Search History

S17 3	112	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. "347"/\$3 and (error or fail\$3) with (count\$3) with time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/30 10:02
S17 4	3	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn. and (error or fail\$3) with (count\$3) with time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:50
S17 5	27	("20020144550" "20030146742" "20010007460" "20020149637" "4577203" "20050122360" "6364452" "5379061" "6820955" "20020130918" "6322190" "20040239714" "6234607").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 06:59
S17 6	4	"20020144550" "20030146742"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:01
S17 7	1	10/824335	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 10:08
S17 8	2	"20020021325"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/30 07:34